



SPYWOLF

Security Audit Report



Completed on
November 5, 2023

@SPYWOLFNETWORK



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SPYWOLF.CO





OVERVIEW

This audit has been prepared for **Caramelo Inu** to review the main aspects of the project to help investors make make an informative decision during their research process.

You will find a a summarized review of the following key points:

- ✓ Contract's source code
- ✓ Owners' wallets
- ✓ Tokenomics
- ✓ Team transparency and goals
- ✓ Website's age, code, security and UX
- ✓ Whitepaper and roadmap
- ✓ Social media & online presence

“

The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal

- SPYWOLF Team -

”



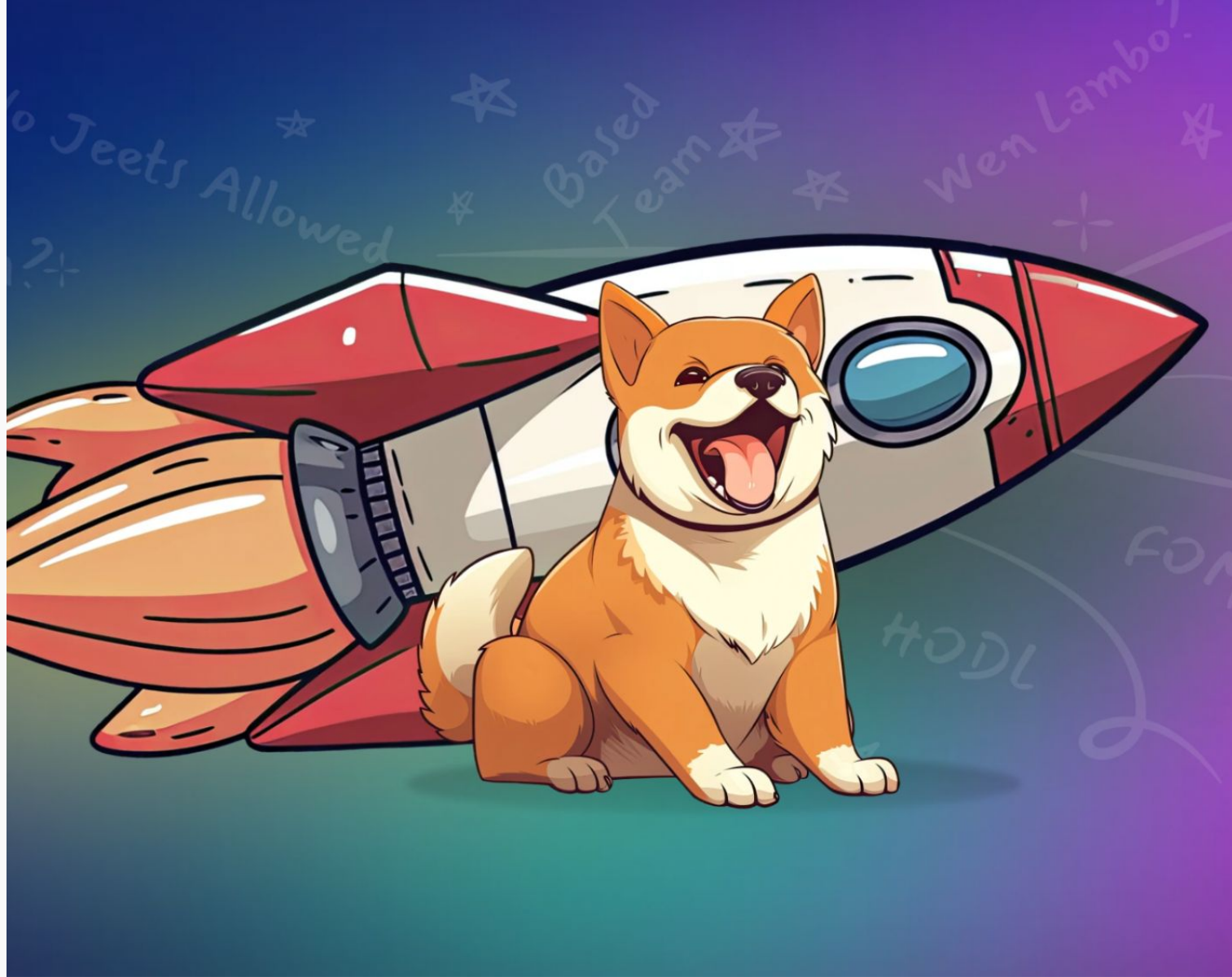


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Caramelo Inu



PROJECT DESCRIPTION

According to their website:

“Hold on tight! Caramelo Inu is here, and it's HUGE. We're making the first-ever Central Bank Digital Inu (CBDI). Simple? Yes. Exciting? Absolutely.

\$CBDI is giving back to the early retail meme coin investors and embracing the internet culture to give back to the people coming to the market with a fair launch model bringing a community driven revolution that is both entertaining and impactful.”

Release Date: Presale starts in 14th November, 2023

Category: Meme token



CONTRACT INFO

Token Name
Caramelo Inu

Symbol
CBDI

Contract Address

0x40907F43f8237E04f2e94Fa1d4793F8317323EB0

Network
Ethereum

Language
Solidity

Deployment Date
Nov 03, 2023

Contract Type
Token with taxes

Total Supply
1,000,000,000

Status
Not launched

TAXES

Buy Tax
none

Sell Tax
2%

*Taxes cannot be changed



Our Contract Review Process

The contract review process pays special attention to the following:

- ✓ Testing the smart contracts against both common and uncommon vulnerabilities
- ✓ Assessing the codebase to ensure compliance with current best practices and industry standards.
- ✓ Ensuring contract logic meets the specifications and intentions of the client.
- ✓ Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- ✓ Thorough line-by-line manual review of the entire codebase by industry experts.

Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat



TOKEN TRANSFERS STATS

Transfer Count	4
Uniq Senders	3
Uniq Receivers	3
Total Amount	1837258028.8325505 CBDI
Median Transfer Amount	697715010.9494165 CBDI
Average Transfer Amount	459314507.20813763 CBDI
First transfer date	2023-11-03
Last transfer date	2023-11-04
Days token transferred	2

SMART CONTRACT STATS

Calls Count	14
External calls	4
Internal calls	10
Transactions count	7
Uniq Callers	3
Days contract called	2
Last transaction time	2023-11-04 22:03:47 UTC
Created	2023-11-03 01:05:59 UTC
Create TX	0x93f42fe90b893f94b3535fe13d4a6e215f2540e05bc16de5b0e337a30d8c581e
Creator	0xde98e78b62b1b86af0f8029589850280832b00c9



VULNERABILITY CHECK

Design Logic	Passed
Compiler warnings.	Passed
Private user data leaks	Passed
Timestamp dependence	Passed
Integer overflow and underflow	Passed
Race conditions and reentrancy. Cross-function race conditions	Passed
Possible delays in data delivery	Passed
Oracle calls	Passed
Front running	Passed
DoS with Revert	Passed
DoS with block gas limit	Passed
Methods execution permissions	Passed
Economy model	Passed
Impact of the exchange rate on the logic	Passed
Malicious Event log	Passed
Scoping and declarations	Passed
Uninitialized storage pointers	Passed
Arithmetic accuracy	Passed
Cross-function race conditions	Passed
Safe Zeppelin module	Passed
Fallback function security	Passed



THREAT LEVELS

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Low Risk

Issues on this level are minor details and warning that can remain unfixed.

Informational

Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.



FOUND THREATS

⚠ High Risk

Owner can blacklist address, making it impossible to sell.

```
function blacklist(address _address, bool _isBlacklisting) external onlyOwner {
    require(blacklists[_address] != _isBlacklisting, "this address is already have this value");
    blacklists[_address] = _isBlacklisting;
}

function _transfer(address from, address to, uint256 amount) internal override {
    require(!blacklists[to] && !blacklists[from], "Blacklisted");
    .....
}
```

- Recommendation:
 - Considered as good practice is blacklisting addresses (bots) to be automated.



FOUND THREATS

⚠ High Risk

Owner can enable/disable trading, making it impossible to sell.
When pair is set to address(0), only owner can transfer tokens.

```
function setRule(bool _limited, address _uniswapV2Pair, uint256 _maxHoldingAmount, uint256 _minHoldingAmount) external onlyOwner {
    require(_minHoldingAmount < _maxHoldingAmount, "_minHoldingAmount must be less than _maxHoldingAmount");
    limited = _limited;
    uniswapV2Pair = _uniswapV2Pair;
    maxHoldingAmount = _maxHoldingAmount;
    minHoldingAmount = _minHoldingAmount;
}

function _transfer(address from, address to, uint256 amount) internal override {
    require(!blacklists[to] && !blacklists[from], "Blacklisted");

    if (uniswapV2Pair == address(0)) {
        require(from == owner() || to == owner(), "trading is not started");
    }
    .....
}
```

- Recommendation:
 - Considered as good practice is trading to be enabled once.



Informational

Owner can exclude address from fees.

When address is excluded from fees, the user will receive the whole amount of the bought, sold and/or transferred tokens.

```
function excludeFromFees (address _address, bool _isExcluding) external onlyOwner {
    require(isExcludedFromFees[_address] != _isExcluding, "this address is already have this value");
    isExcludedFromFees[_address] = _isExcluding;
}
```

Owner can set max holdings and min buy amount per wallet.

```
function setRule(bool _limited, address _uniswapV2Pair,
uint256 _maxHoldingAmount, uint256 _minHoldingAmount) external onlyOwner {
    require(_minHoldingAmount < _maxHoldingAmount ,
    | "_minHoldingAmount must be less than _maxHoldingAmount ");
    limited = _limited;
    uniswapV2Pair = _uniswapV2Pair;
    maxHoldingAmount = _maxHoldingAmount;
    minHoldingAmount = _minHoldingAmount;
}

function _transfer(address from,address to,uint256 amount) internal override {
    .....
    if (limited && from == uniswapV2Pair) {
        require(super.balanceOf(to) + amount <= maxHoldingAmount
        && super.balanceOf(to) + amount >= minHoldingAmount, "Forbid");
    }
    .....
}
```



RECOMMENDATIONS FOR

GOOD PRACTICES

1

Consider fundamental tradeoffs

2

Be attentive to blockchain properties

3

Ensure careful rollouts

4

Keep contracts simple

5

Stay up to date and track development

Caramelo Inu

GOOD PRACTICES FOUND

- ✓ The owner cannot mint new tokens after deployment
- ✓ The owner cannot set a sell transaction limit



There is no information about the initial tokens distribution based on the project's whitepaper and/or website.

TOKENOMICS



THE TEAM

⚠ The team is
anonymous

KYC INFORMATION

No KYC

We recommend the team to get a KYC in order to ensure trust and transparency within the community.





WEBSITE

Website URL

<https://cbdi.money/>

Domain Registry

<https://www.namecheap.com/>

Domain Expiration

2024-11-01

Technical SEO Test

Passed

Security Test

Passed. SSL certificate present

Design

Single page design with appropriate color scheme and graphics,

Content

The information helps new investors understand what the product does right away. No grammar mistakes found.

Whitepaper

No

Roadmap

No

Mobile-friendly?

Yes



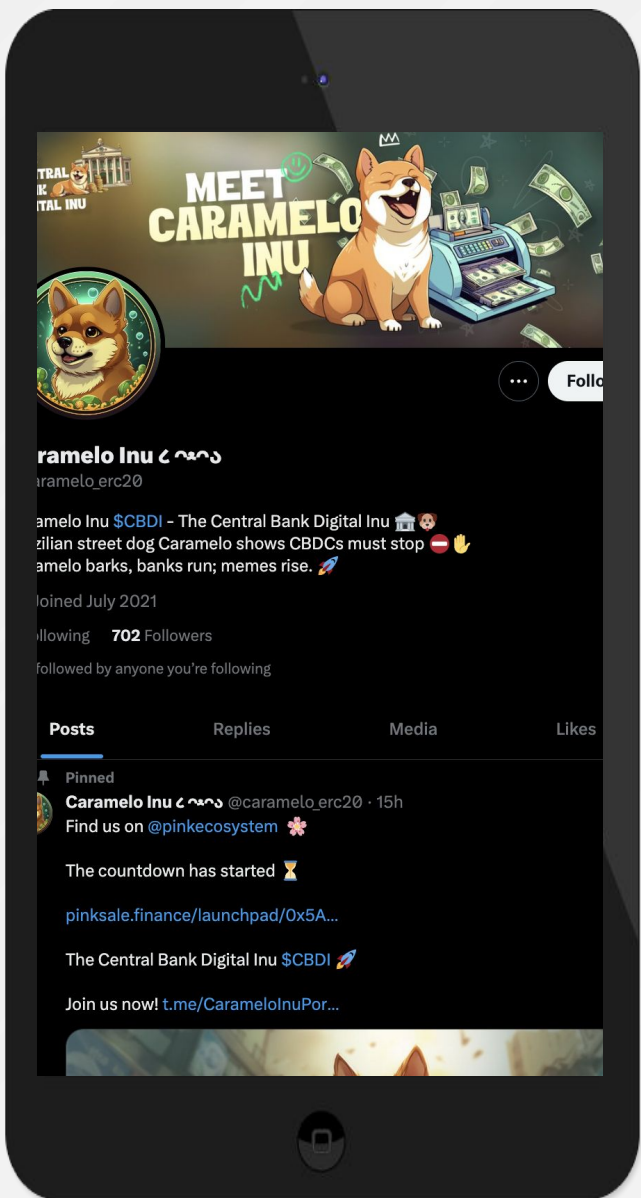
cbdi.money



SOCIAL MEDIA & ONLINE PRESENCE



ANALYSIS
Project’s social media pages are active



Twitter

@TwitterUSERNAME

- 699 followers
- 1 total post
- New account



Discord

- Not available



Telegram

@CarameloInuPortal

- 728 members
- Active members
- Active mods



Medium

- Not available



SPYWOLF

CRYPTO SECURITY

Audits | KYCs | dApps
Contract Development

ABOUT US

We are a growing crypto security agency offering audits, KYCs and consulting services for some of the top names in the crypto industry.

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- ✓ MILLIONS SAVED IN POTENTIAL FRAUD
- ✓ PARTNERSHIPS WITH TOP LAUNCHPADS, INFLUENCERS AND CRYPTO PROJECTS
- ✓ CONSTANTLY BUILDING TOOLS TO HELP INVESTORS DO BETTER RESEARCH

To hire us, reach out to
contact@spywolf.co or
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Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.